



SEQUENCE LISTING

RECEIVED

<110> Michael E. Mendelsohn

NOV 16 2000

<120> METHOD FOR ASSAYING COMPOUNDS AFFECTING
CELL DIVISION

TECH CENTER 1600/2900

<130> 00398/506001

RECEIVED

<140> 09/352,570

<141> 1999-07-13

NOV 15 2000

<160> 4

<170> FastSEQ for Windows Version 4.0

TECH CENTER 1600/2900

<210> 1

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)...(618)

<400> 1

atg	gcg	ctg	cag	ctc	tcc	cgg	gag	cag	gga	atc	acc	ctg	cgc	ggg	agc	48
Met		Ala	Gln	Leu	Ser	Arg	Glu	Gln	Gly	Ile	Thr	Leu	Arg	Gly	Ser	
1		5		10		15										

gcc	gaa	atc	gtg	gcc	gag	ttc	ttc	tca	ttc	ggc	atc	aac	agc	att	tta	96
Ala		Glu	Ile	Val	Ala	Glu	Phe	Phe	Ser	Phe	Gly	Ile	Asn	Ser	Ile	Leu
20		25		30												

tat	cag	cgt	ggc	ata	tat	cca	tct	gaa	acc	ttt	act	cga	gtg	cag	aaa	144
Tyr		Gln	Arg	Gly	Ile	Tyr	Pro	Ser	Glu	Thr	Phe	Thr	Arg	Val	Gln	Lys
35		40		45												

tac	gga	ctc	acc	ttg	ctt	gta	act	act	gat	ctt	gag	ctc	ata	aaa	tac	192
Tyr		Gly	Leu	Thr	Leu	Leu	Val	Thr	Thr	Asp	Leu	Glu	Leu	Ile	Lys	Tyr
50		55		60												

cta	aat	aat	gtg	gtg	gaa	caa	ctg	aaa	gat	tgg	tta	tac	aag	tgt	tca	240
Leu		Asn	Asn	Val	Val	Glu	Gln	Leu	Lys	Asp	Trp	Leu	Tyr	Lys	Cys	Ser
65		70		75												

gtt	cag	aaa	ctg	gtt	gta	gtt	atc	tca	aat	att	gaa	agt	ggt	gag	gtc	288
Val	Gln	Lys	Leu	Val	Val	Val	Ile	Ser	Asn	Ile	Glu	Ser	Gly	Glu	Val	
85		90		95												

ctg gaa aga tgg cag ttt gat att gag tgt gac aag act gca aaa gat		336	
Leu Glu Arg Trp Gln Phe Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp			
100	105	110	
gac agt gca ccc aga gaa aag tct cag aaa gct atc cag gat gaa atc		384	
Asp Ser Ala Pro Arg Glu Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile			
115	120	125	
cgt tca gtg atc aga cag atc aca gct acg gtg aca ttt ctg cca ctg		432	
Arg Ser Val Ile Arg Gln Ile Thr Ala Thr Val Thr Phe Leu Pro Leu			
130	135	140	
ttg gaa gtt tct tgt tca ttt gat ctg ctg att tat aca gac aaa gat		480	
Leu Glu Val Ser Cys Ser Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp			
145	150	155	160
ttg gtt gta cct gaa aaa tgg gaa gag tcg gga cca cag ttt att acc		528	
Leu Val Val Pro Glu Lys Trp Glu Ser Gly Pro Gln Phe Ile Thr			
165	170	175	
aat tct gag gaa gtg cgc ctt cgt tca ttt act act aca atc cac aaa		576	
Asn Ser Glu Glu Val Arg Leu Arg Ser Phe Thr Thr Thr Ile His Lys			
180	185	190	
gta aat agc atg gtg gcc tac aaa att cct gtc aat gac tga		618	
Val Asn Ser Met Val Ala Tyr Lys Ile Pro Val Asn Asp *			
195	200	205	

<210> 2
<211> 199
<212> PRT
<213> Homo sapiens

<400> 2			
Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu			
1	5	10	15
Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr			
20	25	30	
Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu			
35	40	45	
Val Thr Thr Asp Leu Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Glu			
50	55	60	
Gln Leu Lys Asp Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val			
65	70	75	80
Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe			
85	90	95	
Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu			
100	105	110	

Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
 115 120 125
 Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser
 130 135 140
 Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys
 145 150 155 160
 Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
 165 170 175
 Leu Arg Ser Phe Thr Thr Ile His Lys Val Asn Ser Met Val Ala
 180 185 190
 Tyr Lys Ile Pro Val Asn Asp
 195

<210> 3
 <211> 600
 <212> DNA
 <213> Ovis aries

<220>
 <221> CDS
 <222> (1) ... (600)

<400> 3
 cg_g gag caa ggc atc acc tt_g cgc ggg agc gcc gag atc gt_g gcc gag 48
 Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
 1 5 10 15

 ttc ttc tca ttt ggt atc aac agt att tta tat cag cgt ggc ata tat 96
 Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
 20 25 30

 cca tcg gaa acc ttt act cga gt_g cag aaa tat gga ctc acc tt_g ctt 144
 Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
 35 40 45

 gta act act gat cct gag ctc ata aaa tac cta aat aat gt_g gt_g gat 192
 Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp
 50 55 60

 caa cta aaa gaa tgg tta tac aag tgt tca gtt cag aaa ctg gt_g gta 240
 Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
 65 70 75 80

 gtc atc tca aat att gaa agt gga gag gtc ctt gaa aga tgg cag ttt 288
 Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
 85 90 95

 gat att gag tgt gac aag act gca aaa gat gac agt gca ccc aga gaa 336
 Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
 100 105 110

aag tct cag aaa gct atc caa gat gaa atc cgt tca gtg atc aga cag 384
Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
115 120 125

atc aca gct aca gta aca ttt ctg cca ctg ttg gaa gtt tct tgt tca 432
Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser
130 135 140

ttt gat ctc ctc att tat aca gac aaa gat ctg gtt gta cct gag aaa 480
Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys
145 150 155 160

tgg gaa gag tcc gga cca cag ttc att acc aat tct gaa gaa gtt cgt 528
Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
165 170 175

ctt cgt tca ttc act act aca att cac aaa gta aat agc atg gta gcc 576
Leu Arg Ser Phe Thr Thr Ile His Lys Val Asn Ser Met Val Ala
180 185 190

tac aaa att cct gtc cat gac tga 600
Tyr Lys Ile Pro Val His Asp *
195

<210> 4
<211> 199
<212> PRT
<213> Ovis aries

<400> 4
Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
1 5 10 15
Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
20 25 30
Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
35 40 45
Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp
50 55 60
Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
65 70 75 80
Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
85 90 95
Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
100 105 110
Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
115 120 125
Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser
130 135 140
Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys

145 150 155 160
Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
 165 170 175
Leu Arg Ser Phe Thr Thr Ile His Lys Val Asn Ser Met Val Ala
 180 185 190
Tyr Lys Ile Pro Val His Asp
 195